

ABSTRACT

The separation efficiency of non-condensable gas in the separation membrane is enhanced in a refrigeration device provided with a configuration whereby non-condensable gas remaining in the refrigerant connection pipes at the time of on-site installation can be separated and removed from a state of mixture with the refrigerant in the refrigerant circuit using a separation membrane. An air conditioning device 1 comprises a heat source unit (2) and a utilization unit (5) connected via a refrigerant connection pipe (6, 7) to form a refrigerant circuit (10), and has a cooler (32), a secondary receiver (33), and a separation membrane device (34). The cooler (32) cools at least a portion of the refrigerant that flows through the liquid-side refrigerant circuit (11) as the compressor (21) is operated and the refrigerant in the refrigerant circuit (10) is recirculated. The secondary receiver (33) separates the refrigerant cooled by the cooler (32) into a liquid refrigerant and a gas refrigerant that includes non-condensable gas. The separation membrane device (34) has a separation membrane (34b) for separating the non-condensable gas from the gas refrigerant obtained by gas-liquid separation, and discharges the non-condensable gas thus separated to the outside of the refrigerant circuit (10).